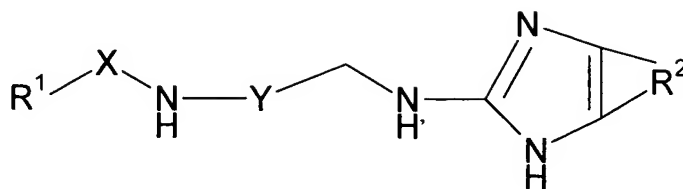


Claims

1. A compound of the formula (I):



(I)

in which:

R^1 is an optionally substituted aryl or an optionally substituted heteroaryl ring;

R^2 is the residue of a 5 or 6-membered heteroaryl ring which is optionally substituted with from 1 to 3 substituents selected from halo, cyano, hydroxy, (C_{1-6}) alkyl (optionally substituted by halo, hydroxy, amino, mono to perfluoro (C_{1-3}) alkyl, carboxy or (C_{1-6}) alkoxycarbonyl), (C_{3-7}) cycloalkyl, $C_{(1-6)}$ alkoxy, amino, mono- or di- (C_{1-6}) alkylamino, acylamino, carboxy, (C_{1-6}) alkoxycarbonyl, carboxy (C_{1-6}) alkyloxy, (C_{1-6}) alkylthio, (C_{1-6}) alkylsulphinyl, (C_{1-6}) alkylsulphonyl, sulphamoyl, mono- and di- (C_{1-6}) alkylsulphamoyl, carbamoyl, mono- and di- (C_{1-6}) alkylcarbamoyl, and heterocyclyl;

X is CH_2 or CHR^3 in which R^3 is $C_{(1-6)}$ alkyl or is linked to the ortho position of an aryl or heteroaryl ring of R^1 to form a 5 to 7 membered ring optionally including oxygen or nitrogen as a ring atom;

Y is $C_{(1-3)}$ alkylene or $C_{(4-6)}$ cycloalkylene;

including tautomeric forms of the imidazole ring; and

salts thereof, preferably pharmaceutically acceptable salts thereof, and excluding 8-[2-(benzylamino)ethylamino]theophylline.

2. A compound according to claim 1, wherein said compound is selected from the group consisting of *N*-(3,5-dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;

N-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;

- N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(3,5-dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- 5 *N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyrazin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine dihydrochloride;
- 10 *N*-(3-bromo-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(6-Ethyl-8-iodo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- 15 *N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine ;
- 20 *N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)-propane-1,3-diamine ;
- 25 *N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- 30 *N*-(3-bromo-2-ethoxy-5-methylsulfanybenzyl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-

- yl)propane-1,3-diamine dihydrochloride;
N-(6-chloro-8-iodochroman-4-yl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-1,3-diamine;
N-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-
5 1,3-diamine dihydrochloride;
N-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
N-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
10 *N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
N-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-
15 *c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-
c]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
20 *N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-
25 2-yl)propane-1,3-diamine dihydrochloride;
N-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine hydrochloride;
N-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
30 *N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-

c]pyridazin-6-yl)propane-1,3-diamine;

N-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;

5 *N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine;

N-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;

N-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;

10 *N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;

N-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;

15 *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;

N-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;

and *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine.

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3. A pharmaceutical composition comprising an antibacterially effective amount of a substance or compound according to claim 1 together with a pharmaceutically acceptable carrier or excipient.

25 4. A pharmaceutical composition according to claim 3, wherein the compound according to claim 1 is selected from the group consisting of *N*-(3,5-dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;

N-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;

30 *N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-

- propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(3,5-dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyrazin-2-yl)-propane-1,3-
- 5 diamine dihydrochloride;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine dihydrochloride;
- N*-(3-bromo-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-
- 10 1,3-diamine ;
- N*-(6-Ethyl-8-iodo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- 15 *N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine ;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-
- 20 yl)propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)-propane-1,3-diamine ;
- 25 *N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(3-bromo-2-ethoxy-5-methylsulfanybenzyl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-
- 30 yl)propane-1,3-diamine dihydrochloride;

- N*-(6-chloro-8-iodochroman-4-yl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-1,3-diamine;
- N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- 5 *N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- 10 *N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- 15 *N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
- 20 *N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
- 25 *N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine hydrochloride;
- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine;
- 30

- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine;
- 5 *N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- 10 *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- 15 *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- and *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine.
- 20 5. A method of treating a bacterial infection, comprising administering an antibacterially effective amount of a compound according to claim 1 to a patient in need thereof.
6. A method of treating a bacterial infection according to claim 5, wherein the compound according to claim 1 is selected from the group consisting of *N*-(3,5-
- 25 dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- 30 *N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;

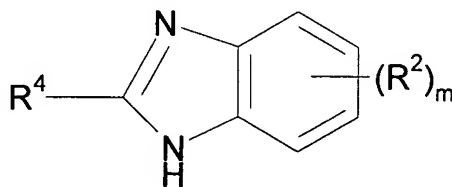
- N*-(3,5-dibromobenzyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyrazin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(4,6-dichloro-1*H*-indol-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine
- 5 dihydrochloride;
- N*-(4,5-dibromothien-2-ylmethyl)-*N'*-(9*H*-purin-8-yl)-propane-1,3-diamine dihydrochloride;
- N*-(3-bromo-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(6-Ethyl-8-iodo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-
- 10 propane-1,3-diamine dihydrochloride;
- N*-(6,8-dibromo-1,2,3,4-tetrahydroquinolin-4-yl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine dihydrochloride;
- N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine ;
- 15 *N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine ;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-
- 20 1,3-diamine;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)-propane-1,3-diamine ;
- N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)-propane-1,3-diamine;
- 25 *N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)-propane-1,3-diamine ;
- N*-(3-bromo-2-ethoxy-5-methylsulfanybenzyl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(6-chloro-8-iodochroman-4-yl)-*N'*-(5*H*-imidazo[4,5-*c*] pyridazin-6-yl)propane-1,3-
- 30 diamine;

- N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4,5-dibromo-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- 5 *N*-(4-bromo-3-methyl-5-vinylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(3-chloro-5-methoxy-1*H*-indol-7-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-
- 10 2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-5-difluoromethyl-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
- 15 *N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-
- 20 2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-3-methyl-5-trifluoromethylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine dihydrochloride;
- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine hydrochloride;
- 25 *N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine;
- N*-(4-bromo-5-(1-fluorovinyl)-3-methylthiophen-2-ylmethyl)-*N'*-(1*H*-thieno[3,4-*d*]imidazol-
- 30 2-yl)propane-1,3-diamine;

- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- 5 *N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-3-methyl-5-ethynylthiophen-2-ylmethyl)- *N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine;
- N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)-*N'*-(5*H*-imidazo[4,5-*c*]pyridazin-6-yl)propane-1,3-diamine dihydrochloride;
- 10 *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*c*]pyridin-2-yl)propane-1,3-diamine;
- N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-imidazo[4,5-*b*]pyridin-2-yl)propane-1,3-diamine;
- 15 and *N*-(4-bromo-5-ethyl-3-(1-propynyl)thiophen-2-ylmethyl)- *N'*-(1*H*-thieno[3,4-*d*]imidazol-2-yl)propane-1,3-diamine.

7. A process for preparing a compound of formula (I) which process comprises

- 20 (i) reacting an imidazole compound of formula (II):



(II)

in which R² is as hereinbefore defined; and

- 25 R⁴ is a leaving group such as halo, for instance chloro or C₍₁₋₆₎ alkylthio;
with an amine of the formula (III):



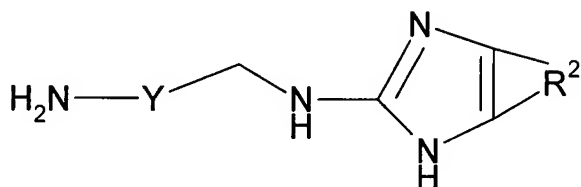
(III)

in which R^1 , X and Y are as hereinbefore defined;

or an activated derivative thereof;

5 under nucleophilic displacement conditions; or

(ii) reacting a compound of formula (IV):



(IV)

in which R^2 and Y are as hereinbefore defined;

with either:

(a) for a compound of formula (I) in which X is CH_2 , an aldehyde of formula (V):

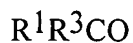


(V)

in which R^1 is as hereinbefore defined;

under reductive alkylation conditions;

(b) for a compound of formula (I) in which X is CHR^3 , a ketone of formula (VI):



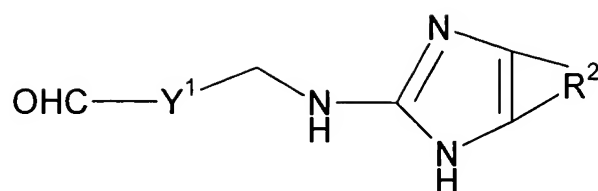
(VI)

in which R^1 and R^3 are as hereinbefore defined;

under reductive alkylation conditions;

(c) for preparing a compound of formula (I) in which Y is $C_{(1-3)}$ alkylene which process

comprises reacting a compound of formula (VII):



(VII)

in which R^2 is as hereinbefore defined, and

Y^1 is $C_{(0-2)}$ alkylene;

5 with an amine of formula (VIII):



(VIII)

in which R^1 and X are as hereinbefore defined;

under reductive alkylation conditions.

10